

Effect of Nonmetallic Inclusions on the Properties of
Malleable Cast Iron, by P. N. Bidulya, G. Yu. Shul'ze,
RUSSIAN, per, Iz Vysokikh Ucheb Zaved Chern Mat, No.1,
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HB 6152

Sci - M/M

Mar 64

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Spreading of Slag Along the Surface of Molten Metal, by S. I. Popel.

RUSSIAN, per, Izvest. Vuz-Chernaya Met. 1962,
No. 2, pp 9-17.
BISI 4014

278,616

Sci-MM
Apr 65

Special Features of Control of the Thermal Conditions
in the Blast Furnace With Natural-Gas Injection,
by V. I. Loginov, G. G. Efimenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 2, 1962, pp 31-38.

HB 5565

Sci

8x Jun 62

Formation and Behavior of Continuously Cast Steel Sections in the Mold, by L. S. Rudoi.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 2, 1962, pp 51-55.

HB 5567

Sci-M/N
Apr 65

229,156

Stresses Due to Concentration Nonuniformity Near
a Growing Spherical Centre of a New Phase in Solid
Solutions, by L. N. Aleksandrov.

RUSSIAN, per, Iz Vysshikh Uchebnix Zaved Chern Metal,
Vol V, No 2, 1962, pp 118-122.

NLL Ref. 5828.4 1963 (5,385)
(Loan)

Sci - Phys
Nov 63

242, 325

Stability of Alloy Steels in Liquid Tin,
by F. L. Edel'man, V. V. Pokrovskiy.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved,
Chern Metall, No 2, 1962, pp 123-124.

HB 5564

Sci - Min/Met
May 262

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Mineral Composition of Fluxed Sinter and Special
Features of Its Reduction. Communication I, by
E. I. Lesbeinskaya, S. T. Rostovtsev.

ROBESIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 3, 1962, pp 12-23.

HB 5626

Sci - Chem

204, 761

Jul 62

Uniformity of Particle Size of Blast Furnace Charge
and Utilization of Gas Flow, by V. E. Levchenko,
A. A. Gimmel'farb.

RUSSIAN, p3r, Iz Vysshikh Ucheb Zaved, Chern Metal,
No 3, 1962, pp 30-37.

HB 5628

Sci - Engr

204, 763

Jul 62

Study of the Kinetics of the Solidification
Process in the Axial Zone of Steel Ingots
by the Differential ~~Sounding~~^{Soundings} Method, by
S. Ya. Skoblo,

~~RUSSIAN~~, per, Iz Vyssh Ucheb Zaved, Chern
Met., 1962, No 3, pp 53-59.

HB 5852

229, 357

Sci-M/M
Apr 63

EFFECT OF RARE-EARTH ELEMENTS ON THE SURFACE TENSION
OF LIQUID IRON, BY A. F. VISHKAREV, ET AL.

RUSSIAN, PER, IZ VYSSHIXH UCHEB ZAVED, CHERN
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HB 5600

SCI - MIN/MET
AUG 62

206,992

Automation of Electric Arc Furnace Steelmaking, by
V. M. Vinogradov.

RUSSLAN, per, Invest VUZ Chern Met, No 3, March 1962,
pp 67-76.

HB 5652

Sci-Min/Met
Jan 63

219,385

Internal Design of the Bath in a Furnace
Melting 45 percent Ferro-Silicon, by
I. T. Zherdev.
RUSSIAN, per, Inv. VIZ Chern. Met., No 3,
1962, pp 77-87.
BISI 5001

314,493

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Dec 66

Maksimov, S. K., Skakov, Yu. A. and others.
ROLE OF PHASE COMPOSITION DEPOSITS IN
MAGNETIC AGING OF MILD STEEL (Rol'Fazovogo
Sostava Vydelenii v Magnitnom Starenii Myagkoi Stali).
[1963] [8]p. (foreign text included) 6 refs.
Order from OTS or SLA \$1.10

63-16388

Trans. of Izvestiya Vysashikh Uchebnikh Zavedenii.
Chernaya Metallurgiya (USSR) 1962, no. 3, p. 122-124.

DESCRIPTORS: *Steel, Phase studies, Iron alloys,
Nitrogen, Deposits, Chemical analysis, Magnetic
properties, Aging (Materials).

The connection between the intensity of the magnetic
aging by the absolute value of H_c and the phase compo-
sition of the deposit was established. The retarding of
the magnetic aging is not so much related to the ap-
proximation of the dimensions of the deposit to the
(Metallurgy--Ferrous Metals, TT, v. 10, no. 6)

(over)

63-16388

I. Maksimov, S. K.
II. Skakov, Yu. A.

Office of Technical Services

The Rate of Formation and Growth on Non-Metallic
Inclusions in Steel, by S. I. Popel'.
RUSSIAN, per, Izv. VUZ Chern. Met., No 4, 1962,
pp 5-13.
BISI 5314

Sci/Materials
Jun 67

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The Effect of the Gas Flow on the Reduction Rate of
Iron Oxides, Part II, by I. A. Kopyrin, M. Yka. Ostroukhov.
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No 4, 1962, pp 29-36.

BISI 3842

CRL/T1736

Sci-Engr
Feb 65

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The Surface Energy of Certain Oxides,
Sulphides, and Selendies, by S. N. Zadumkin,
V. Kh. Khulamkhanov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 4, 1962, pp 112-114.

NLL Ref: 7831.9 1963 (167) (loan)

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Mineral Composition of Fluxed Sinter and Some Special Features of Its Reduction, Communication II, by E. I. Leshchinskaya, S. T. Rostovtsev.

■ RUSSIAN, per, Izvest Vysshikh Ucheb Zaved Chern Met, No 5, 1962, pp 5-15.

HB 5662

Sci-Min/Met
Mar 63

Blast Furnace Operating Experience at High
Driving Rates, by N. G. Makhmanek, A. S.
Kukarkin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
Met, No 5, 1962, pp 37-43.

HB 6049

Sci-Engr

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Nov 63

The Influence of Barium Oxide on the Viscosity
of Blast Furnace Slags, by L. I. Bol'shakov,
N. L. Zhilo.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 5, 1962, pp 44-50.

BISI 3188

Sci - Chem
Mar 63

226 617

Electromigration in Liquid Binary Alloys
and Its Connection With Electroresistance, by
D. K. B. lashchenko, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb-Zavednii,
Chern Metal, Vol V, No 5, 1962, pp 120-130.
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AEC-Tr-6076

Sci - Mat & Met
Jan 64

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Nitridation of Titanium by Use of Induction (HF)
Heating, by Yu. V. Grdina, et al.
RUSSIAN, per, Izvest. VUZ-Chem. Met., Vol 5,
No 6, 1962, pp 128-131.
IB 7984

sci/ materials
nov 69

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Diffusion of Hydrogen in Carbon Steels, by
C. I. Batalin, 8 pp.
RUSSIAN, per, IVUZ Chern Met, Vol 5, No 5, 1962,
pp 131-133.
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Sci/Phy
Mar 70

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Recording Ultrasonic Inspection Results, by
Ya. I. Ioffe.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern
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HB 5924

Sci-Engr

Nov 63

243,450

Specific Heat of Iron Ores and Sinters, by
S. G. Bratchikov, G. A. Toporishchev.

RUSSIAN, per, Iz Vysshikh Ucheb ~~zavedeniy~~
Chernaya Metallurgiya, Vol V, No 6, 1962,
pp 16-20.

BISI 3424
CRL/T. 1405
246, 376

Sci - M/M
Jan 64

Effect of Reduced Specific Coke Rates in Blast Furnace Upon Blast Volume and Top Gas, by N. G. Makhanek.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal,
Jun 1962, pp 21-25.

HB 5582

Sci - Min/Metals

210, 863

Sep 62

Sup 136

Reducing Processes in the Sintering of Iron Ores,
by A. A. Sigov, V. A. Shurkhali,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, Jun 1962, pp 26-31.

HB 5590

Sci - Chem

Sep 62

210, 864

Sup 136

Mathematical Concept of the Period From Meltdown
to Tap in the Open-Hearth Furnace, by N. N. Dobrokhotov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met,
No 6, 1962, pp 39-50.
HB 5588

Sci - Math
May 64

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Production of Alloys of Calcium and Magnesium With
Silicon, by A. S. Mikulinskiy, I. V. Ryabchikov.

RUSSIAN, per, Izvest Vysshikh Ucheb Zaved Chern Met,
Jun 1962, No 6, pp 344-350.

HB 5592

Sci-Min/Met
Mar 63

Thermodynamics of Fe-Cr Alloys, by B. P. Burylev,
RUSSIAN, per, Izv VUZ Chern Met, No 6, 1962,
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*CFSTI TT 70-58196

Sci-Chem
June 70

On the Problem of Reducibility of Blast-Furnace
Sinter, by N. L. Gol'dshtein.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 7, Jul 1962, pp 37-45.

HB 5775

Sci-Min/Met
Mar 63

Hanging of Melt in Blast-Furnace Stock Column,
by A. S. Kukarkin, B. I. Kitaev.

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Dec 1962, pp 20-28.

*HB 5882

Sci - M/M
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Segregation of Sulfur in Large Rimmed-Steel Ingots,
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RUSSIAN, per, Iz Vynsh Ucheb Zaved Chern Met,
No 7, 1962, pp 62-70.

HB 5884

Sci-Materials & Metallurgy
July 63

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Effect of Remelting of Steel on its Contamination by Titanium Nitride, by Yu. G. Gurevich.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met, No 7, 1962, pp 71-77.

HB 5885

Sci-M&M
May 63

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Vacuum Treatment of Ball-Bearing Steel
Produced Without Ferrosilicon Addition,
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No 7, Jul 1962, pp 78-85.
HB 6493

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May 65

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Desulfurization of Steel by Injection of
Powdered Reagents, by A. S. Tumarov, A. Kh.
Urazgil'deev, et al.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
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HB 5886

Sci-Materials & Metallurgy
July 63

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Effect of Nitrogen and Boron Upon the Properties
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RUSSIAN, per, Iz Vyssh Ucheb Zaved Chem Met.,
No 7, 1962, pp 97-102.

HB 5081

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The Unequal Deformation Which Results When Rolling
Bimetals, by I. M. Pavlov, Yu. N. Ledanov.

RUSSIAN, per, Izvestiya Vyashykh Uchebnykh Zavedenii
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BISI 3449

Sci - N/M
Dec 63

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Electrotransfer Migration of Nickel Admixtures
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D. I. Balashchenko, 5 pp.

RUSSELRN, par, Iz Vysshikh Ucheb Zaved, Chern
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S.A. - Mat & Met
Jan 64

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Intensification of the Processes in the Blast-Furnace Hearth, by V. I. Loginev.

RUSSIAN, per, Iz Vyssikh Ucheb. Zaved., Chern. Metal., No 8, 1962, pp 21-28.

BB 5878

Met & Met
Oct 63

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ON THE PROBLEM OF THE EFFICIENCY OF THE
OXYGEN CONVERTER STEELMAKING PROCESS, BY
I. I. KOBYLYAKOV, 10 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIX USHEBNYKH
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1962, PP 200-206.

JPRS 16417

USSR
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DEC 62

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UTILIZATION OF NATURAL GAS IN FERROUS
METALLURGY, BY XX YE. G. KHRIPKO, V. P.
ADRIANOVA, ET AL, 12 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIXH UCHEBNYKH
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JPRS 16587

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SCI - M/M DEC 62

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Effect of Gas-Phase Composition on the Reduction
Kinetics of Fluxed Sinter, by P. N. Ostrik,
S. T. Rostovtsev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 9, 1962, pp 17-25.

HB 5755

Sci-M/M

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Investigation of the Magnetic Roasting
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A. N. Pokhvisnev, Yu. S. Yusfin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 9, 1962, pp 49-53.

NLL RTS 2361
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Jul 64

Flow of Slag in Blast Furnace Through Coke
Packings Counter Current to Gas, by
S. V. Shavrin, I. N. Zakharov, B. V. Ipatov.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 9, 1962, pp 54-65.

HB 5795

Sci-M/M
Apr 63

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Thermodynamics of the Deoxidation of Steel by Means
of Lanthanum, Cerium Praseodymium and Neodymium, by
G. Kinne, A. F. Vishkarev.

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No 9, sep 1962, pp 92-98.

HB 5754

Sci-M/M
Mar 63

Effect of Oxygen on Desulphurization of Liquid Steel, by A. I. Kondrat'ev, A. M. Sazanin.

RUSSIAN, par. In Vysshikh Nauches Zavod Chernih
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BISI 5441

Sci-W/M

Jan 64

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Effect of Tubular Bark Electrodes on the Thermal Working
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L. E. Nikol'skiy, et al.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,

No 9, 1962, pp 105-110.

HB 5753

Sci - M/M
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STRUCTURAL CHANGES DURING HARDENING AND
RECHYSTALLIZATION OF MOLYBDENUM, BY
A. P. GULYAYEV, S. S. GORELIK, ET AL, 7 PP.

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JPRS 17306

SCI - CHEM, M/M

JAN 63

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COMBUSTIBILITY OF TITANIUM AND ITS ALLOYS,
BY N. V. MANUYEV, 8 PP.

RUSSIAN, PER, IZVESTIYA VYSSHIX UCHEBNYKH
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NO 9, 1962, PP 197-205.

JPRS 17306

SCI - CHEM, M/M
JAN 63

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Experiments on the Top Blowing of Metal Baths,
Based on Models, by V. I. Baptizmanskiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 10, 1962, pp 31-41.

HB 5784

Sov-M/M

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Nov 63

Basic Factors Governing the Melting Loss of
Chromium in High-Chromium Alk Steel Baths During
Oxygen Lancing, by R. I. Kadinov, S. I. Khitrik.

RUSSIAN, per, Iz Vyash Ucheb Zaved, Chern Met,
No 10, 1962, pp 50-57.

HB 5778

Sci- M & M
May 63

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Use of Thermolectric Method for Investigat-
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Steels, by A. P. Shadrinova.

RUSSIAN, per, Iz Vysah Ucheb Zaved Chern
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HB 5779

Sci-M&M
May 63

229,831

Effect of Cold Treatment of Tool Steels Upon
Their Mechanical Properties, by Yu. G. Vyshkovskiy.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 10, 1962, pp 111-~~112~~118.

HB 5780

Sci-M/M
Apr 63

229,~~25~~364

Possibilities of Improving the Red Hardness of
High-Speed Steel, by N. A. Nesterov, Yu. V. Grdina.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met, No 10,
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MB 5781

Sci- MM
May 63

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Supercooling of Magnesium-Treated Cast Iron, by
A. Ya. Khrapov, V. I. Bedarev.

RUSSIAN, per, Izvest Vyssikh Ucheb Zaved Chern Met,
No 10, Oct 1962, pp 131-136.

HB 5782

Sci-M/M
Mar 63

Injection of Compressed Air or 100% Oxygen into
the Open-Bath for Automatic Control of
the Carbon Filtration Process, by M. Ya. Med-
zhitskaya.

Kharkov, Sov. Invent VUZ, Chern Met, No 10,
1962, p. 16-170.

ED 5783

Soviet
Soviet

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Mechanism of the Low-Temperature Reduction of
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RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern Met,
No 11, 1962, pp 5-II.

HB 5827

Sci- MSM
May 63

229, 838

Thermodynamic Conditions for the Formation of
Aluminum Nitride in Liquid Iron, by I
V. F. Isaev, A. N. Morozov.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met, No 11, 1962, pp 57-60.

HB 5828

Sci-M/M
Apr 63

229,365

Phase Composition of Slag in Basic Arc Furnace
Melting of Stainless Steels, by E. I. Kadinov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 61-69

~~200-5951~~
Sci - M/M
Mar 63

HG 5941

226,668

<p>Batulin, G. I. and Tkachenko, M. S. ON THE QUESTION OF NITRIDING OF MANGANESE [1963] 6p 5refs Order from OTS or SLA \$1.10</p> <p>Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. [Chernaya Metallurgiya] (USSR) 1962, no. 11, p. 76-79.</p> <p>DESCRIPTORS: *Manganese, *Hardening, Particle size, Ammonia, Reaction kinetics, Metallography, Phase studies.</p> <p>Investigation of the influence of manganese metal particle size, temperature and feed gas velocity on the course of the nitriding process in a stream of ammonia has shown that feed gas velocity, under conditions of these tests, has no effect on the reaction rate. A relation between manganese particle size and the gain in charge weight was developed. It was shown that the (Metallurgy--Nonferrous Metals, TT, v. 10, no. 12) (over)</p>	<p>63-20130</p> <p>I. Title: Nitriding I. Batulin, G. I. II. Tkachenko, M. S.</p> <p>Office of Technical Services</p>
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Study of Cooling of Wire Rod From Continuous
Rolling Mill, by V. I. Gubinskiy.

RUSSIAN, ser, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 128-132.

HB 5835

Sci - Engr
Mar 63

326469

Special Features in the Manufacture of Thin Walled Tubes
of Cold Reducing Machines, by Yu. F. Shevakin,
F. S. Seidaliev.

RUSSIAN, per, Invest Vuz Chern Met, 1962, pp 133-139.

BISI 3257

Sci - M/M
Sept 63

345,128

Residual Stresses in Surface of Steels Impregnated
With Various Alloying Elements by G. N. Dubinin,
L. Gribovskiy.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metel.
No 11, 1962, pp 170-174.

HB 5836

226,670

Sci - M/M, Engr
Mar 63

Study of Physico-Chemistry of the Ternary
Cr₂O₃-ZrO₂-SiO₂ System, by V. F. Smachnaya.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 191-197.

HB 5837

Sci - Chem, Phys
Mar 63

226671

Comparative Analysis of the Technical-Economic
Indices of Open-Hearth Plants With 500- and
250-M. Ton Furnaces, by V. A. Romanets, Yu E.
Funtov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 11, 1962, pp 202-203.

HB 5854

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Sci - Engr
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Hold-Up of Molten Materials in the
Blast-Furnace Stock Column, by A. S. Kukarin,
B. I. Kitsyev.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 12, 1962, pp 20-28.

HB 5882

Sci-Engr

Nov 63

243,455

Investigation of Gas Flow in the Blast Furnace with
the Use of Helium, by I. A. Kopyrin et al.

RUSSIAN, In Vsesoiuzn Ucheb Zaved, Chern. Metal.,
No 12, 1962, pp 29-40

HB 5879

Mat & Met
Oct 63

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Special Features of the Structure of the Bath of
a Rotary Ferresilicon Furnace, by I. T. Zherdev,
et al.

RUSSIAN, per, Iz Vsesoiuzn. Nauch. Zaved., Chern.
Metal., No 12, 1962, pp 61-66.

HB 5819

Met & Met
Oct 63

345, 156

On the Effect of Phosphorus Upon the Temper
Brittleness of Steel, by V. N. Svechnikov,
S. S. Golubev.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Chern
Met., No 12, 1962, pp 117-119.

HB 5871

Sci-MAM
May 63

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Structural Characteristics of High-hardness Twin-Layer Rolls From Chromium-Nickel Cast Iron, by A. E. Krivosheev, Y. N. Taran.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, Vol V, No 12, 1962, pp 131-137.

N NLL Ref. 5828.4 1963 (5,379)
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Sci - M/M
Nov 63

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THE MECHANISM OF CRYSTALLIZATION OF RIMMING STEEL
DURING CONTINUOUS CASTING, BY V. B. GANKIN,
G. N. OYKS, 12 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, CHERNAYA
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JPRS 18710

SCI - MAT-MET

APR 63

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DEVELOPMENT OF IMPROVED DESIGNS OF NOZZLES AND
STOPPED HEADS FOR XXXXXM CONTINUOUS CASTING OF
STEEL, BY YE. I. ISAYEV, I. T. KUSHNAREV, 8 PP

RUSSIAN, PER, IZ VYSSHikh UCHEB ZAVED, CHERNAYA
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JPRS 18710

SCI - MAT-MET

HB 5909

APR 63

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Effect of Some Elements on the Seizing of Steel
During Hot Working, by G. I. Bel'chenko,
A. A. Baranov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chernaya
Metallurgiya, 1963, pp 97-105.

*HB 5911

Sci - M/M
May 63

Microdefects in Diffusion Layers on Alloys
of Iron, by M. A. Krishtal.

RUSSIAN, per, Khimizvest VUZ, Chern Met, No 1,
1963, pp 111-116.

HB 5912

Sci-M/M
Jun 64

246, 337

Transformation of Superaealed Austenite in
Steels with Various Degrees of Alloying,
by N. P. Braun, et al.
^{no}
BESCHAU, per, Inv. WZ Chem. Met., Vol. 1,
1963, pp 120-135.
HIBI 5633

Sci-Materials
Oct 67

343,132

On the Best Way of Calculating the Heat Absorption
by the Open-Hearth Bath, by V. Yu. Kaganov, et al.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chern Met,
No 1, 1963, pp 194-200.
HB 6208

Sci-M & M
June 64

261,781

Determination of the Porosity of a Loose Assembly
of Spheroidal Particles from its Structure,
by G. M. Platonov

RUSSIAN, per, IVUZ, Chern Met., Vol 11, No 2,
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Sci/Mater
Jun 69

On the Work Performed by the Gas Stream in the
Upper Part of the BF Stack With Natural Gas
Added to Blast, by Yu. M. Potebnya, V. I. Litvinenko.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Met,
No 2, 1963, pp 23-30.

HB 5896

Sci-M/M

243, 933

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Study of the Sources of Pulsations in Hot-Blast Pressure at the Blast-Furnace Tuyeres,
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